Technical Data

THERMOTECT SC

Kansai Paint Protective Coatings

<table>
<thead>
<tr>
<th>GENERIC TYPE</th>
<th>Heat Resistant Paint</th>
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<tbody>
<tr>
<td>DESCRIPTION</td>
<td>A single component, heat resisting paint based on a moisture curing silicone resin and aluminium powder</td>
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<tr>
<td>RECOMMENDED USE</td>
<td>Steel structure protection for high temperature service</td>
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</tbody>
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FEATURES

- Excellent heat resistance (Up to 540℃)
- Lead and chromium free
- Good weather resistance
- Good applicability
- Pre-heating is not required.

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>Colour</th>
<th>Silver</th>
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<tbody>
<tr>
<td>Finish</td>
<td>Semi-gloss</td>
</tr>
<tr>
<td>Volume Solids</td>
<td>45 %</td>
</tr>
<tr>
<td>Typical Thickness</td>
<td>Dry : 25 microns / coat</td>
</tr>
<tr>
<td>Theoretical Coverage</td>
<td>18.0 ml/L at 25 microns DFT</td>
</tr>
<tr>
<td>Flash Point</td>
<td>25℃</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.19 g/cm³</td>
</tr>
<tr>
<td>VOC</td>
<td>476 g/L</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>Non-continuous : 600℃, Continuous : 540℃</td>
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</tbody>
</table>

*These numerical values are subject to normal manufacturing tolerances, colours and testing variances.

SURFACE PREPARATION

- All surfaces to be coated should be completely clean, dry and free from contamination.
- Surface preparation method shall be in accordance with ISO 8504: 2000.
- Remove salt and other water-soluble contaminants by fresh water.
- Remove oil and grease with suitable detergent or solvent (SSPC-SP-1).
- Remove rust, mill scale and other loose material completely by abrasive blasting (ISO 8501-1:2007 Sa 2 1/2 or SSPC SP-10).
- A surface profile of 25-50 microns is recommended.

APPLICATION

Application Conditions

Ambient temperature shall be above 5℃ and relative humidity shall be below 85%. Surface temperature shall be a minimum of 3℃ above dew point. Adequate ventilation shall be provided in confined spaces to ensure proper drying.

Mixing

Stir paint in container with power agitator well before using.

Mixing ratio

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Induction Time

Not required

Application Method

Airless spray

- Thinner : Enamel Thinner 200 (0-10% by weight)
- Nozzle pressure: Not less than 10MPa
- Nozzle Tip : No.163-415~617
- Brush 0-5% by weight, Roller 0-20% by weight
- * Brush coating is recommended than rollar.
- * Film thickness is managed with 50 microns wet.
- * Maximum thickness which can be applied without causing subsequent film blistering on heating is total 100 microns.(50 microns in a single coat)

*Too much thinning results sagging and slower cure.
SAFETY PRECAUTIONS

- Clean all the equipment with thinner immediately after use.
- Avoid inhalation of spray mist or vapour. Avoid skin and eye contact. Paint contacted with skin should be immediately removed with water and/or suitable cleanser. Eyes should be flushed with water and seek immediate medical attention.
- Since this product contains flammable solvents, keep away from sparks and open flames.
- Application and handling of this product should be in compliance with relevant national regulations.
- Store in dry, cool condition and away from sources of heat and ignition. Containers must be kept tightly closed to prevent skin from happening. Film performance is not be affected. Store conditions shall be in accordance with national regulations.
- 12 months from date of production

- Although direct two coats application on to steel surface is possible for in door service, blast cleaning to steel surface is required.
- Make sure to protect painted film from dust in case drying time under normal temperature becomes long before high temperature service starts.
- It is not suitable for strong steam, acid and alkali environment due to poor resistance.
- When over coated, bleeding of undercoat may be observed. The bleeding would stop when second coat of over coat is applied or by spray application.
- Not suitable for exposure in acid or alkaline environments.
- Recommend to apply Zinctect 1500A when this product is used in high corrosively category under 400°C. Follow the instruction sheet when Zinctect 1500A is applied.
- Apply mist-coat twice on Zinctect 1500A to prevent babble happening. Apply 2nd mist in a few minutes after 1st mist-coat.
- Control the thickness by wet film gauge to prevent too much thickness which causes blister during forced dry. Avoid apply on TermoNS2 series.

*If any inquiries, please consult Kansai Paint representative for further information.

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